AUR 61st Annual Meeting Program

Black entry indicates educational programming; dark blue entry indicates society-specific event. See page 8 for description and key to content codes.

- 📚 indicates programming of special interest to residents.
- ⚪ designates a course being offered as a self-assessment module (SAM).
- 🎇 indicates programming of special interest to SARRAD participants.
- 🌐 indicates qualifying session for the Academy of Radiology Leadership and Management.

Tuesday, April 9, 2013

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<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tr>
<td>6:30–8:00 AM</td>
<td>Continental Breakfast (all attendees)</td>
<td>Platinum Ballroom Salon E</td>
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<tr>
<td>6:30 AM–4:30 PM</td>
<td>Meeting Registration</td>
<td>Platinum Ballroom Foyer</td>
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<tr>
<td>6:30 AM–6:00 PM</td>
<td>Speaker Ready Room</td>
<td>Georgia 1</td>
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<tr>
<td>7:00–8:30 AM</td>
<td>APDR Session</td>
<td>Platinum Ballroom Salon D</td>
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<td></td>
<td>Hot Topics</td>
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<td>7:00–7:20 AM</td>
<td>Preparing Residents for the Core Exam</td>
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<td>Faculty: Darel E. Heitkamp, MD</td>
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<td>Learning Objectives:</td>
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<td></td>
<td>1. Discuss results of recent APDR Annual Survey regarding program directors’ plans for core exam preparation.</td>
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<td>2. Review the role of the core exam in the context of the overall ABR certification process.</td>
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<td>3. Review the resources available to residents made available by the ABR.</td>
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<td>7:20–8:20 AM</td>
<td>Milestones</td>
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<td>Faculty: Angelisa M. Paladin, MD</td>
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<td>Learning Objectives:</td>
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<td></td>
<td>1. Define the 12 diagnostic radiology milestones.</td>
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<td>2. Define methods of assessment for the radiology milestones.</td>
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<td>3. Develop methods to implement the milestones in the radiology residency program.</td>
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<td>8:20–8:30 AM</td>
<td>Q&amp;A</td>
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<td>7:00 AM–12:00 PM</td>
<td>RRA Session</td>
<td>Diamond Ballroom Salons 7 and 8</td>
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<td>Emerging Technologies Program</td>
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<td>Location: Diamond Ballroom Salons 7 and 8</td>
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<td>Moderator: King C. Li, MD, MBA*</td>
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<td>7:00–7:05 AM</td>
<td>Welcome</td>
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<td>Faculty: Belinda Seto, PhD</td>
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<td>7:05–7:10 AM</td>
<td>Introduction and Overview of Course</td>
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<td>Faculty: King C. Li, MD, MBA*</td>
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<td>7:10–7:50 AM</td>
<td>Basic Molecular Biology I: From DNA to Proteins</td>
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<td>Faculty: King C. Li, MD, MBA*</td>
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<td>Learning Objectives:</td>
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<td>1. Discuss the central dogma of molecular biology.</td>
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<td>2. Explain the process of transcription.</td>
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<td>3. Explain the process of translation.</td>
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<td>4. Name at least two examples of how errors in translation lead to clinical disease.</td>
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* Faculty financial disclosures are located in the Faculty Index.
[7:50–8:30 AM] Basic Molecular Biology II: Proteins—The Workhorses of Life  
Faculty: Belinda Seto, PhD  
Learning Objectives:  
1. Describe the basic protein structures.  
2. Explain why protein kinases are important drug targets.  
3. Provide an example of a protein kinase inhibitor that is clinically used.

[8:30–8:45 AM] Break

[8:45–9:15 AM] Molecular Diagnostics: How to Build Synergy with Imaging  
Faculty: Michael D. Kuo, MD  
Learning Objectives:  
1. Describe the changing diagnostics paradigm.  
2. Describe the challenges and limitations of current imaging approaches in the era of molecular medicine.  
3. Define ways in which current imaging approaches can be leveraged to facilitate molecular diagnosis.

[9:15–10:00 AM] Current Clinical Applications of Molecular Imaging  
Faculty: Rathan M. Subramaniam, MD, MPH, PhD  
Learning Objectives:  
1. Understand the basis of the emerging role of molecular imaging in cardiovascular, musculoskeletal, neurological, and oncological diseases.  
2. Understand the basis of the emerging role of molecular imaging in processes such as angiogenesis, apoptosis, inflammation, atherosclerosis, and ischemia.

[10:00–10:15 AM] Break

[10:15–11:00 AM] Optimizing Equipment for Imaging Molecular Processes: The Trade-offs  
Faculty: Steve H. Fung, MD  
Learning Objectives:  
1. Demonstrate an understanding of spatial, temporal, and concentration limitations of various imaging techniques used in molecular imaging.  
2. Describe ways of optimizing imaging techniques to improve sensitivity and spatial and temporal resolution for molecular imaging.  
3. Describe how new imaging techniques, including multimodality fusion imaging, accelerate clinical/translational molecular imaging.

[11:00–11:30 AM] Bioinformatics: The Key to Putting Everything Together  
Faculty: King C. Li, MD, MBA  
Learning Objectives:  
1. Discuss how bioinformatics can impact medical care.  
2. Explain how radiologists can leverage bioinformatics tools for providing state-of-the-art care.  
3. Provide examples of how bioinformatics has been applied for biomedical research.

[11:30–11:45 AM] How to Become a “Molecular Imager”  
Faculty: King C. Li, MD, MBA  
Learning Objectives:  
1. Explain why radiologists should learn about molecular imaging.  
2. Identify the stages of development into a molecular imager.  
3. Provide examples of how imaging can be integrated into the new world of molecular medicine.

[11:45 AM–12:00 PM] Q&A  
7:30–8:30 AM Medical Education Research Certificate (MERC) Breakfast (Advance Registration Required)  
Location: Platinum Ballroom Salons H and I

* Faculty financial disclosures are located in the Faculty Index.
8:00–8:30 AM  
A³CR³ Session
Welcome and Orientation
Location: Platinum Ballroom Salon C
Moderator: Nathaniel D. von Fischer, MD
Faculty: Victor Sai, MD  
Gautham P. Reddy, MD  
Steven Sauk, MD  
Elizabeth Sheybani, MD  
Colin M. Thompson, MD

8:30–10:00 AM  
A³CR³ Session
Case Review 1: Cardiac Imaging; and Business of Radiology
Location: Platinum Ballroom Salon C
Moderator: Fernando J. Boschini, MD

[8:30–9:00 AM]  
Case Review 1: Cardiac Imaging
Faculty: Gautham P. Reddy, MD
Learning Objectives:
1. Review interesting cases, initially as unknowns and then with brief focused “pearls.”
2. Identify abnormalities on imaging studies.
3. Develop appropriate differential diagnoses.
4. Describe appropriate management.

[9:00–10:00 AM]  
Business of Radiology
Moderators: Ted Chang, MD  
Matthew R. Hammer, MD
Faculty: Dieter R. Enzmann, MD  
Jonathan R. Medverd, MD
Learning Objectives:
1. Describe radiology’s value chain.
2. Identify ways to leverage the value chain to brighten the future of radiology.
3. Develop business strategies for life after residency.

8:30–10:00 AM  
APDR/APCR Session
Interventional Radiology Training: Updates and Innovation in the New ABR Era
Location: Platinum Ballroom Salon D
Moderator: Geogy Vatakencherry, MD

[8:30–8:50 AM]  
IR/DR Dual Certificate Update
Faculty: John A. Kaufman, MD*  
[8:50–9:00 AM]  
Q&A  
[9:00–9:10 AM]  
Resident-run IR Clinics
Faculty: Derek Mittleider, MD  
[9:10–9:20 AM]  
IR Education at UVA
Faculty: Saher S. Sabri, MD  
[9:20–9:30 AM]  
Kaiser: IR Training
Faculty: Ken H. Lam, MD, MBA  
[9:30–9:45 AM]  
SIR Trunk Document
Faculty: Geogy Vatakencherry, MD

* Faculty financial disclosures are located in the Faculty Index.
Panel Q&A

Learning Objectives:
1. Identify the growing need for deep clinical understanding in order to provide minimally invasive therapy.
2. Identify how invaluable a resident-run clinic is in terms of becoming a “face” for radiology, as well as a way to cover many of the competencies needed in residency:
   a. Patient care.
   b. 360-degree evaluations.
   c. System-based practice.
   d. Practice-based learning and improvement.
3. Develop curriculum and structure rotations to satisfy the training needs of those pursuing vascular and interventional radiology.
4. Describe the dual certificate of training for diagnostic radiology and interventional radiology.

8:30–10:00 AM AUR Session

Teaching Ethics and Professionalism
Location: Platinum Ballroom Salons F and G
Faculty:
James V. Rawson, MD
Janet A. Munroe, MD
Lori A. Deitte, MD
Richard B. Gunderman, MD, PhD
Sumir S. Patel, MD
Robert A. Mackey, MD, MBA
Shamar J. Young, MD
Gilberto Sostre, MD

Learning Objectives:
1. Review basic principles of problem-based learning.
2. Review basic principles of facilitation of a problem-based learning session.

8:30–10:00 AM MERC Workshop (Co-sponsored by APDR and RSNA)
(Advance Registration Required)

Measuring Educational Outcomes with Reliability and Validity: Part I
Location: Platinum Ballroom Salons H and I
Course Director: Jannette Collins, MD, MEd, FCCP
Facilitator: Paul F. Wimmers, PhD

Learning Objectives:
1. Identify three types of reliability (interrater, test-retest, and internal consistency).
2. Match types of reliability with appropriate statistical measures.
3. Describe the relationship between reliability and validity.
5. Select an approach to reliability and validity assessment for a particular study.

10:00–10:30 AM Break
Location: Platinum Ballroom Salon E

10:00 AM–5:00 PM Exhibit Viewing
Location: Platinum Ballroom Foyer
### TUESDAY SCHEDULE

« **A³CR² Session**

**Residents as Teachers**

**Location:** Platinum Ballroom Salon C  
**Moderators:** Kevin S. Koo, MD  
Steven M. Yevich, MD, MPH  
**Faculty:** Andrea Donovan, MD

**Learning Objectives:**
1. Identify principles of effective learning and teaching.
2. Establish an effective learning climate.
3. Devise goals and objectives for the teaching session.
4. Apply principles of effective teaching to individual, small-group, and large-group teaching.
5. Provide effective feedback, and reflect on your own teaching.

### ACER Session

**Brave New World of Teaching**

**Location:** Platinum Ballroom Salons A and B  
**Moderator:** Achala S. Vagal, MD

**[10:30–10:50 AM]**  
**Multidisciplinary Collaboration: Breaking Down the Silos**  
**Faculty:** Mahesh M. Thapa, MD

**Learning Objectives:**
1. Illustrate the importance of a collaborative approach for academic advancement.
2. Discuss a few techniques to improve interdepartmental collaboration.

**[10:50–11:10 AM]**  
**Innovations in Residency Physics Education in a Changing (and Challenging) Environment**  
**Faculty:** Ioannis Sechopoulos, PhD*

**Learning Objectives:**
1. Identify the challenges involved in physics education for diagnostic radiology residents.
2. Develop novel methods to incorporate physics education for the residents.

**[11:10–11:30 AM]**  
**Residents at the Quality Improvement Table: An Invitation for Collaboration**  
**Faculty:** Jeffrey P. Kanne, MD*

**Learning Objectives:**
1. Develop a quality improvement program that actively includes residents.
2. Assemble the necessary tools to assist residents with quality improvement.
3. Examine ways to encourage residents to initiate their own quality improvement projects.

**[11:30 AM–12:00 PM]**  
**Panel Discussion/Q&A**

### APDR/APCR Session

**Simulation: Beyond Contrast Reactions**

**Location:** Platinum Ballroom Salon D  
**Moderator:** J. Mark McKinney, MD

**[10:30–10:45 AM]**  
**Structure and Timing of Simulation in the Curriculum**  
**Faculty:** Leonard R. Bok, MD, JD*

**Learning Objectives:**
1. Define "simulation-based training" in the radiology context.
2. Apply the principles of adult learning in designing simulation-based training.
3. Recommend appropriate applications of simulation in the radiology residency curriculum.

* Faculty financial disclosures are located in the Faculty Index.
[10:45–11:00 AM] Developing and Implementing a Simulation Laboratory Training Experience
Faculty: Nabeel E. Sarwani, MD

Learning Objectives:
1. Identify the key elements of a simulation training program for radiology residents.
2. Identify resources available to teach a SimLab course.
3. Describe different and effective teaching styles.
4. Describe the development of a continuous process improvement (CPI) plan.

Faculty: John Paige, MD

Learning Objectives:
1. Summarize key features of a simulation-based training program.
2. Recommend appropriate simulation-based training activities for technical and nontechnical skills acquisition in radiology.
3. Construct a comprehensive simulation-based training program for learners in radiology by using surgery as a model.

Faculty: Ted Chang, MD

Learning Objectives:
1. Analyze current teaching schema in radiology, and identify deficiencies.
2. Describe the benefits of using anonymized cases to reinforce traditional didactic lectures.
3. Provide simple methods to create anonymized teaching files by using PACS.

Faculty: Mishal Mendiratta-Lala, MD

Learning Objectives:
1. Identify the goals of simulation-based training for the intent of learning CT- and US-guided procedures.
2. Differentiate between procedural skills and technical skills when performing a procedure.
3. Describe methods to critique residents acquiring their procedural skills via simulation-based methods.
4. Recognize the implications of simulation-based training in the “real-world” medical setting.

[11:45 AM–12:00 PM] Q&A

10:30 AM–12:00 PM MERC Workshop (Co-sponsored by APDR and RSNA) (Advance Registration Required)
Measuring Educational Outcomes with Reliability and Validity: Part 2
Location: Platinum Ballroom Salons H and I
Course Director: Jannette Collins, MD, MEd, FCCP
Facilitator: Paul F. Wimmers, PhD

Learning Objectives:
1. Identify three types of reliability (interrater, test-retest, and internal consistency).
2. Match types of reliability with appropriate statistical measures.
3. Describe the relationship between reliability and validity.
5. Select an approach to reliability and validity assessment for a particular study.

12:00–1:30 PM A+CR2 Networking Lunch (members only)
Location: Diamond Ballroom Salons 1, 2, and 3

12:00–2:00 PM Lunch on your own

* Faculty financial disclosures are located in the Faculty Index.
2:00–3:30 PM  
**A^CR^2 Session (members only)**  
Idea Forum

Location: Platinum Ballroom Salon C  
Moderator: Darel E. Heitkamp, MD

Learning Objectives:
1. Describe challenges that chief residents face.
2. Identify experiences that are shared by chief residents at many programs.
3. Formulate potential solutions to these issues.

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2:00–3:30 PM  
**ACER/APDR Session**

Ethical Conundrums in Today’s Digital Age

Location: Platinum Ballroom Salon D  
Moderator: Eric J. Stern, MD

[2:00–2:20 PM] Guidelines for Scholarly Use of Images  
Faculty: Petra J. Lewis, MD

Learning Objectives:
1. Comprehend the laws that define medical image copyright and the potential risks.
2. Explain who owns the copyright to medical and other images.
3. Safely use medical images and images from the Internet in scholarly products, including papers, lectures, and electronic media.

Faculty: Annemarie Relyea-Chew, JD, MS  
Felix S. Chew, MD, MBA

Learning Objectives:
1. Identify key components to successful collaboration.
2. Apply those components to current and future collaborations.
3. Resolve ethical issues in collaboration.

[2:40–3:00 PM] Ethics in Publication  
Faculty: Thomas H. Berquist, MD

Learning Objectives:
1. Identify sources for guidelines in biomedical publications.
2. Apply guidelines appropriately for current and future scientific projects.
3. Explain ethical issues to colleagues and co-investigators.

[3:00–3:30 PM] Panel Discussion/Q&A

2:00–5:00 PM  
**RRA Session**  
(RSponsored by an unrestricted educational grant from Toshiba America Medical Systems)

Radiation Dose Reduction Symposium (2013)

Location: Diamond Ballroom Salons 7 and 8  
Moderators: David P. Chason, MD  
Kevin S. King, MD

[2:00–2:45 PM] Radiation Dose in Diagnostic Radiology: What Should We Be Doing about It?  
Faculty: Jon A. Anderson, PhD

Learning Objectives:
1. Discuss effective dose and its role in radiation risk assessment.
2. Describe the linear no-threshold model for radiation risk and its implications for lifetime detriment.
3. Examine the use and misuse of patient dose history in making clinical imaging decisions.

* Faculty financial disclosures are located in the Faculty Index.
[2:45–3:30 PM] **Dose Reduction Strategies for CT: Clinical Implementation**  
Faculty: **Jeffrey B. Guild, PhD, MS**  

Learning Objectives:  
1. Examine CT dose indices and how they relate to patient dose.  
2. Examine how CT automatic exposure control (AEC) systems work, and discuss the parameters that control AEC operation.  
3. Describe a CT dose reduction program that includes ongoing physician assessment of diagnostic quality, dose review by the physicist, and subsequent development of size-specific parameters to augment AEC operation.

[3:30–4:15 PM] **Iterative Reconstruction**  
Faculty: **Lawrence N. Tanenbaum, MD**  

Learning Objectives:  
1. Identify the fundamentals of iterative reconstruction (IR) techniques from a variety of vendors.  
2. Identify the relationship of IR to noise and dose reduction in clinical CT.  
3. Utilize the effectiveness of various levels of IR for a variety of applications.  
4. Appreciate the limitations of traditional filtered backprojection techniques and how they contribute noise to the clinical image.

[4:15–5:00 PM] **Tracking and Reducing Skin Dose in Interventional Radiology**  
Faculty: **Gary M. Arbique, PhD, MS**  

Learning Objectives:  
1. Classify skin dose levels associated with cutaneous radiation injuries.  
2. Describe radiation dose indices pertaining to fluoroscopic procedures and how to use them to estimate patient doses.  
3. Assess elements needed in a dose-tracking program to comply with regulatory requirements and accreditation organization expectations.  
4. Identify fluoroscopic features that critically impact patient dose.

3:30–4:00 PM  
**Break**  
Location: **Platinum Ballroom Salon E**

4:00–5:30 PM  
**APCR Business Meeting 1**  
Location: **Platinum Ballroom Salons F and G**

4:00–5:30 PM  
**ACR® Session**  
**Case Review 2: Thoracic Radiology, Breast Imaging, and Vascular/Interventional Radiology**  
Location: **Platinum Ballroom Salon C**  
Moderator: **Fernando J. Boschini, MD**  
Faculty: **Darel E. Heitkamp, MD**  
**Janet E. Bailey, MD**  
**M. Victoria Marx, MD**

Learning Objectives:  
1. Review interesting cases, initially as unknowns and then with brief focused “pearls.”  
2. Identify abnormalities on imaging studies.  
3. Develop appropriate differential diagnoses.  
4. Describe appropriate management.

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**ACER Session**

4:00–5:30 PM

Defining Your Road to Success: Panel Discussion

Location: Platinum Ballroom Salons A and B

Moderator: Jonathan O. Swanson, MD

**Top Five Things I Learned Being on the Clinician-Educator Track**

Faculty: Teresa Chapman, MD, MA

[4:00–4:30 PM]

**Importance of Mentorship**

Faculty: Alexander M. Norbash, MD
Eric J. Stern, MD
John Eng, MD

[4:30–5:00 PM]

**Importance of Educational Scholarship**

Faculty: Mark E. Mullins, MD, PhD
Jannette Collins, MD, MEd, FCCP
Mahesh M. Thapa, MD

Learning Objectives:
1. Identify successful strategies for young faculty to navigate the seemingly nebulous clinical educator pathway.
2. Develop an appreciation for the value of a strong mentor-mentee relationship, and define a successful approach to becoming an effective mentor.
3. Develop an appreciation for the importance of educational scholarship, and specify techniques to convert education interest into academic currency.

**AUR/RSNA Informatics Session**

4:00–5:30 PM

Medical Imaging Resource Center (MIRC®) Teaching Files

Location: Platinum Ballroom Salon D

Moderator: Krishna Juluru, MD

Faculty: Tessa S. Cook, MD, PhD
Krishna Juluru, MD
William J. Weadock, MD
Frederick E. Weiss, MD

Learning Objectives:
1. Identify strategies for capturing images from the PACS.
2. Compare and contrast the advantages and disadvantages of using the RSNA interesting case/teaching file/conference software at your institution in comparison with myRSNA’s online portal to capture and store interesting images and cases.
3. Describe the ways in which you can combine the advantages of both systems.
4. Provide some practical advice to get the most out of a departmental teaching file system.
5. Enhance case/teaching file systems by using them in conjunction with other software for resident education.

5:30–6:30 PM

**ACR/APDR/SCARD/APCR Beer and Pretzels Reception (co-sponsored by APDR, RSNA, and SCARD)**

Location: Diamond Ballroom Salon 5

6:30–7:30 PM

**APCR Reception**

Location: Diamond Ballroom Salon 9

* Faculty financial disclosures are located in the Faculty Index.
Wednesday, April 10, 2013

6:30–8:00 AM  Continental Breakfast (all attendees)
Location: Platinum Ballroom Salon E

6:30 AM–4:30 PM  Meeting Registration
Location: Platinum Ballroom Foyer

6:30 AM–5:00 PM  Exhibit Viewing
Location: Platinum Ballroom Foyer

6:30 AM–5:00 PM  Poster Viewing
Location: Platinum Ballroom Salon E

6:30 AM–6:00 PM  Speaker Ready Room
Location: Georgia 1

7:00–8:00 AM  APDR Business Meeting
Location: Platinum Ballroom Salon D

7:00–8:15 AM  AMA PRA Category 1 Credit™ Poster Session 1 201
Location: Platinum Ballroom Salon E

7:00–8:15 AM  ACR® Session 202
ABR Update
Location: Platinum Ballroom Salon C
Moderator: Nathaniel D. von Fischer, MD
Faculty: Kay H. Vydareny, MD
Learning Objectives:
1. Describe the changes that will occur in the examination process for primary board certification.
2. Discuss the process of maintenance of certification.
3. Describe the relationship of the American Board of Radiology (ABR) and the American Board of Medical Specialties (ABMS) and the issues that surround that relationship.

7:00–8:15 AM  AMSER Session 203
Innovative Approaches to Medical Student Involvement in Research
Location: Platinum Ballroom Salons A and B
Moderator: Donna Magid, MD, MEd
[7:00–7:20 AM]  Medical Student Summer Radiology Research Projects
Faculty: Aine M. Kelly, MD, MS
Learning Objectives:
1. Identify suitable types of projects that medical students can complete in a couple of months.
2. Appraise the literature.
3. Perform a critically appraised topic.

[7:20–7:40 AM]  Mentoring Required Medical Student Longitudinal Scholarly Projects
Faculty: Stefan Tigges, MD
Learning Objectives:
1. List three reasons for requiring medical students to complete a hypothesis-driven research project.
2. List three essential “ingredients” for a successful project.
3. List two alternatives to doing a hypothesis-driven project.

[7:40–8:00 AM]  Student-Faculty Research Relationship
Faculty: Kimberly E. Applegate, MD, MS
Learning Objectives:
1. Describe the expectations of the role of the faculty mentor in the research relationship.
2. Describe the expectations of the role of the student in the research relationship.
3. Identify the different approaches and types of research that may be performed.

[8:00–8:15 AM]  Q&A

* Faculty financial disclosures are located in the Faculty Index.
RAHSR Session

Appropriateness and Imaging Utilization
Location: Platinum Ballroom Salons H and I
Moderators: Ruth C. Carlos, MD, MS
Paul P. Cronin, MBCh

[7:00–7:15 AM] Causes of Growth in Imaging Utilization: The Role of Uncritical Use
Faculty: Bruce J. Hillman, MD*

[7:15–7:30 AM] ACR Appropriateness Criteria®: An Overview and Future Directions
Faculty: Debra L. Monticciolo, MD

[7:30–7:45 AM] Computerized Provider Order Entry and Decision Support
Faculty: James H. Thrall, MD*

[7:45–8:00 AM] How Do Radiology Benefit Managements Control Utilization: The Jefferson Experience
Faculty: Vijay M. Rao, MD

[8:00–8:15 AM] Panel Discussion
Faculty: Bruce J. Hillman, MD*
Debra L. Monticciolo, MD
James H. Thrall, MD*
Vijay M. Rao, MD

Learning Objectives:
1. Explain the origins of an anti-imaging bias, detail why the use of medical imaging is too often wasteful, and make suggestions about how to improve the current perceptions about imaging.
2. Describe and understand the basic elements and construction of the ACR Appropriateness Criteria®, and be familiar with their intent and use.
3. Describe the goals of physician computer order entry and decision support systems.
4. Develop an understanding of trends in imaging utilization, and identify the strategies deployed by commercial payers to control utilization.

SCARD Members Forum

Building Culture and the Leadership to Do It
Location: Platinum Ballroom Salons F and G
Moderator: Jannette Collins, MD, MEd, FCCP
Faculty: Manuel L. Brown, MD*
Eila A. Kazerooni, MD, MS
Carolyn C. Meitze, MD*

Learning Objectives:
1. Describe different levels of employee engagement.
2. Describe how feedback affects culture in the workplace.
3. Describe how an effective leader demonstrates authenticity, builds relationships, creates goals, and delegates.
4. List several traits of a great boss.

RSNA Learning Portfolio Users Group
Location: Plaza 3

AUR-Agfa Radiology Management Program (Advance Registration Required)
Location: Diamond Ballroom Salons 7 and 8

In order to be in compliance with the Accreditation Council for Continuing Medical Education’s Standards of Commercial Support, AMA PRA Category 1 Credit™ will not be awarded to physicians attending this session.

8:15–8:30 AM Break

* Faculty financial disclosures are located in the Faculty Index.
8:30–10:00 AM  ACR Session (members only)  205
Problem Solving
Location: Platinum Ballroom Salon C
Moderators: Jennifer Shih, MD  Jesse D. Woodard, MD

Learning Objectives:
1. Participate in small-group discussions aimed at solving stated problems.
2. Present small-group solutions to all participants.
3. Formulate an overall problem-solving action plan.

8:30–10:00 AM  AMSER/APDR/ACER/APCR/RAHSR Session  206
AMSER Lucy Squire and APDR/ACR Keynote Lecture: Sustaining Educational Innovation through Collaborative Academic Entrepreneurship
Location: Platinum Ballroom Salon D
Moderator: Carl R. Fuhrman, MD
Introduction: Robert A. Novelline, MD
Faculty: Leslie H. Fall, MD

Learning Objectives:
1. Develop an understanding of core concepts of innovation and entrepreneurship.
2. Describe an effective model for collaborative development of an education innovation.
3. Discuss critical elements needed to sustain education innovations over time.
4. Synthesize information presented, and consider applicability for AUR-generated ideas and innovations.

8:30–10:00 AM  RRA/SCARD Session  207
Emerging Technologies: How Radiology Can Take Advantage of Them
Location: Platinum Ballroom Salons F and G
Moderators: King C. Li, MD, MBA*  Rathan M. Subramaniam, MD, MPH, PhD*

[8:30–9:00 AM] Digitization of Medicine
Faculty: King C. Li, MD, MBA*

Learning Objectives:
1. Identify the major trends in digitization that will impact medical imaging.
2. Discuss how radiologists can leverage digitization tools to provide state-of-the-art care.
3. Discuss how radiologists can lead the charge in systems diagnostics.

[9:00–9:30 AM] Mobile Computing
Faculty: William F. Auffermann, MD, PhD

Learning Objectives:
1. Describe the major advances in mobile computing technology and how they may influence radiology and patient care.
2. Identify future potential trends in mobile computing and how they may be applied to radiology.
3. Examine ways radiologists can be leaders in the application of new mobile computing technologies to medicine.

[9:30–10:00 AM] New Health Care Environment
Faculty: Aliya Qayyum, MD*  Stamatis Kantartzis, MD  Nathaniel D. von Fischer, MD  Akash P. Kansagra, MD  John-Paul J. Yu, MD, PhD  Matthew T. Heller, MD

Learning Objectives:
1. List five performance indicators that may be used for continuous quality improvement (CQI).
2. Compare how health information technology has transformed and can transform health care delivery.
3. Define “meaningful use,” and list six examples of radiology-related core objectives.
4. Identify four potential strategies for increasing and improving radiologist involvement in patient management.
5. Identify three potential barriers to modern radiologic research and possible approaches and solutions to fostering an active research enterprise.

* Faculty financial disclosures are located in the Faculty Index.
**WEDNESDAY SCHEDULE**

10:00–10:30 AM  
**Break and Poster Viewing**  
Location: Platinum Ballroom Salon E

10:30 AM–12:00 PM  
**A*CR* Session**  
**Case Review 3: Pediatric, Genitourinary, and Gastrointestinal Radiology**  
Location: Platinum Ballroom Salon C  
**Faculty:**  
Teresa Chapman, MD, MA  
Steven S. Raman, MD  
Lori A. Deitte, MD

Learning Objectives:
1. Review interesting cases, initially as unknowns and then with brief focused "pearls."
2. Identify abnormalities on imaging studies.
3. Develop appropriate differential diagnoses.
4. Describe appropriate management.

10:30 AM–12:00 PM  
**AMSER Session**  
**Medical Student Radiology Education Issues: Innovative and Collaborative Strategies in Medical Student Teaching**  
Location: Platinum Ballroom Salons A and B  
**Moderator:** Christopher M. Straus, MD

[10:30–10:50 AM]  
**Stand-alone Radiology Course: Pros and Cons, and How I Do It**  
**Faculty:** Caroline W. Carrico, MD

Learning Objectives:
1. Define advantages of a stand-alone 4-week-long required radiology clerkship.
2. Describe some of the challenges faced by a radiology department as it introduces a dedicated 4-week stand-alone radiology clerkship.
3. Explain and describe the basic radiology clerkship curriculum at Duke University, including course content, grading, and scheduling.

[10:50–11:10 AM]  
**Longitudinal Integration of a Radiology Course in the Clinical Continuum**  
**Faculty:** Theodore R. Hall, MD

Learning Objectives:
1. Identify the components needed to create an educational thread or longitudinal learning experience in radiology for medical students.
2. Identify hidden opportunities for radiologists to teach in the preclinical medical education program.
3. Discuss effective strategies for remaining viable in a competitive medical education program.

[11:10–11:25 AM]  
**Radiology for the Budding Nonradiologist: Our Future Referral Base Part I—What Should We Teach and Why?**  
**Faculty:** Donna Magid, MD, MEd

Learning Objectives:
1. Set appropriate levels of ascending complexity across the 4 years:
   a. Gross anatomy: initial introduction to major concepts and modalities, suggesting future relevance.
   b. Transition to wards: expand basics; introduce various modalities and ACR Appropriateness Criteria®; clarify "request" vs "order."
   c. Clinical years: examining cost-benefit assessments (risk, dose, information obtained); how to consult with a radiologist.
2. Discuss the role of radiologists as imaging consultants; medical imaging as a consult, rather than a test ordered; and the importance of communication with the referring clinicians.
3. Position radiologists as members of the patient care team: compassionate, competent diagnostic and therapeutic health care allies.

* Faculty financial disclosures are located in the Faculty Index.
Radiology for the Budding Nonradiologist: Our Future Referral Base Part 2: How Do We Teach the Appropriate Use of Imaging?
Faculty: C. Alex Grieco, MD

Learning Objectives:
1. Discuss methods of familiarizing students with the ACR Appropriateness Criteria®, by utilizing both didactic and patient care settings.
2. Introduce the role of radiologists in the referral process, specifically monitoring exam production and safety issues.
3. Describe the “delayed-return” investment of presenting the ACR Appropriateness Criteria® to nonradiology-oriented rotating students—our future referrers.

Q&A

10:30 AM–12:00 PM
APDR Session
ABR Update
Location: Platinum Ballroom Salon D
Moderator: Gary J. Becker, MD
Faculty: James P. Borgstede, MD, Milton J. Guiberteau, MD, Duane G. Mezwa, MD

Learning Objectives:
1. Explain the rationale for the ABR’s decision to transform the diagnostic radiology (DR) certification exam, be familiar with the details of the new core and certifying examinations, and communicate the changes by discussing the strengths and limitations of both the old and the new exam paradigms.
2. Describe the anticipated impact of the new examination paradigm on DR training programs, including accommodations that will be made in order to adjust to the change; and do the same for any anticipated impact on group practices.
3. Access and utilize all ABR Web site information and resources on maintenance of certification (MOC), and sign onto and interact with his or her ABR online personal database (PDB) (will be myABR by March 2013) for updating, attestation, and confirmation of status.
4. Describe the ABR’s continuous certification program that began in 2012, the annual look-back process, and public reporting of diplomate-specific MOC statuses: “meeting MOC requirements,” “not meeting MOC requirements,” and “not certified.”
5. Articulate a step-by-step plan for executing a practice quality improvement (PQI) project relevant to your own practice.
6. Identify and correct the most common misconceptions about the ABR MOC program and participation in MOC.
7. Describe the various ABR and ABMS initiatives aimed at aligning MOC with other requirements, including credentialing, licensure, payment incentives, quality measure reporting, and potentially others.

10:30 AM–12:00 PM
RAHSR/ACER Session
Reporting Guidelines and Appraising the Literature
Location: Platinum Ballroom Salons H and I
Moderators: Angelisa M. Paladin, MD, Paul P. Cronin, MBBCh

[10:30–10:40 AM] Reporting Guidelines and Appraising Medical Educational Studies
Faculty: Aine M. Kelly, MD, MS

Faculty: Pina C. Sanelli, MD, MPH

[10:50–11:00 AM] Reporting Guidelines and Appraising Screening Studies
Faculty: Janie M. Lee, MD, MS*

[11:00–11:10 AM] Reporting Guidelines and Appraising Therapeutic Studies
Faculty: Marta E. Hellbrun, MD

Faculty: Paul P. Cronin, MBBCh

Faculty: TBD

Faculty: James V. Rawson, MD

* Faculty financial disclosures are located in the Faculty Index.
Panel Discussion
Faculty: Aine M. Kelly, MD, MS
       Pina C. Sanelli, MD, MPH
       Janie M. Lee, MD, MS
       Marta E. Heilbrun, MD
       Paul P. Cronin, MBBC
       James V. Rawson, MD

Learning Objectives:
1. Identify the different types of medical educational studies in the literature.
2. Evaluate and compare measures of cost-effectiveness, and apply them to topics in radiology.
3. Analyze published medical educational studies, diagnostic testing, screening, and therapeutic studies, systematic reviews and meta-analyses, cost-effectiveness studies, and guidelines for their strength, limitations and validity, and appropriateness to your patient population.
4. Provide a review of the appraisal criteria, and be able to critique published medical educational studies, diagnostic testing, screening, and therapeutic studies, systematic reviews and meta-analyses, cost-effectiveness studies, and guidelines and make suggestions to improve them.

SCARD/RRA Session 212
Building Research Collaborations beyond the Radiology Department
Location: Platinum Ballroom Salons F and G
Faculty: Sanjiv S. Gambhir, MD, PhD
         Thomas M. Grist, MD
         Geoffrey D. Rubin, MD
         Mitchell D. Schnall, MD, PhD

Learning Objectives:
1. Identify the opportunities for research collaborations outside of radiology departments.
2. List some obstacles to research collaborations between radiology departments and other departments in the academic medical center.
3. Describe the value of developing collaborative research programs with peer departments.
4. Explain the role of materials science in helping to build research collaborations.
5. Describe the role of joint faculty recruitments in building research collaborations.
6. Explain the role of seed funding in building research collaborations.

Luncheon and Awards Ceremony
Location: Diamond Ballroom Salons 4 and 5
Awards (Announcements and Introductions)
AUR Memorial Award (page 59)
AUR Joseph E. and Nancy O. Whitley Award (page 60)
ACR Research Award (pages 53, 69)
AMSR Henry Goldberg Medical Student Award (pages 53, 57)
RAHSR-ACR Award (pages 53, 74)
RRA New Investigator Award (page 54)
AUR Trainee Prizes (pages 61, 64, 72, 75, 82, 84)
AUR Staffer Awards (page 54)
AUR R&E Foundation Ethics and Professionalism in Radiology Grant Award
AUR Ferrer Fellows (page 55)

Philips Vydenary Imaging Interpretation Competition 1 (page 45)
Location: Diamond Ballroom Salons 4 and 5
Presented by Mallinckrodt Institute of Radiology
Moderator: Kristopher K. Cummings, MD
Faculty: Steven Sauk, MD
         Elizabeth Sheybani, MD
         Colin M. Thompson, MD

Break

* Faculty financial disclosures are located in the Faculty Index.
A\textsuperscript{CR}R Session

Case Review 4: Ultrasound
Location: Platinum Ballroom Salon C
Moderator: Fernando J. Boschini, MD
Faculty: Stefanie Weinstein, MD

Learning Objectives:
1. Review interesting cases, initially as unknowns and then with brief focused “pearls.”
2. Identify abnormalities on imaging studies.
3. Develop appropriate differential diagnoses.
4. Describe appropriate management.

AMSER/ACER Session

Innovative and Collaborative Approaches in Resident and Medical Student Education
Location: Platinum Ballroom Salons A and B
Moderator: Mark E. Mullins, MD, PhD

[2:00–2:20 PM]
Innovative Approaches to Resident and Medical Student Teaching, including Applications of AMSER Resources
Faculty: Andrea Donovan, MD

Learning Objectives:
1. Apply principles of adult learning in daily radiology teaching.
2. Engage learners in small- and large-group learning environments.
3. Incorporate available resources into teaching and assessment.

[2:20–2:40 PM]
Innovative Uses of Technology in Teaching
Faculty: Michael L. Richardson, MD

Learning Objectives:
1. Comprehend the basic principles of “flip” teaching of radiology, wherein traditional active and inactive learning activities are reversed.
2. Identify three effective strategies (plus pros and cons) for using audience response systems.
3. Comprehend the advantages of e-books over other formats for disseminating teaching materials.
4. Apply the three rare and awesome skills that every clinician-educator of the future should know.

[2:40–2:55 PM]
Application of Case-based Online Radiology Education in Medical Student (and Resident) Education
Faculty: Erin E. O’Connor, MD

Learning Objectives:
1. Recognize how case-based online radiology education (CORE) fosters self-directed study, independent learning, and clinical problem-solving skills.
2. Describe the interactive nature of CORE and how it can help students achieve the AMSER learning objectives.
3. Navigate through the MedU Web site and CORE cases.
4. Examine the Instructors Area for CORE, and assess how this resource can be used.
5. Analyze how CORE can be integrated into the curriculum at one’s own institution in radiology clerkships/electives, as well as required clinical clerkships such as obstetrics-gynecology, surgery, pediatrics, and medicine.

[2:55–3:10 PM]
Integrating Radiologic-Pathologic Correlation into Radiology Education for Medical Students and Residents
Faculty: Matthew S. Hartman, MD

Learning Objectives:
1. Recognize the limitations that medical students have with respect to taking radiology and pathology electives.
2. Identify advantages of incorporating aspects of both radiology and pathology into the curriculum in a singular course.
3. Incorporate different strategies for organizing a radiology-pathology elective.

[3:10–3:30 PM] Q&A
APDR Session 216
RRC Update

Location: Platinum Ballroom Salon D
Moderator: Lawrence P. Davis, MD
Faculty: Lawrence P. Davis, MD
Lynne E. Meyer, PhD, MPH

Learning Objectives:
1. Identify the program changes that are on the horizon related to the milestones project and the “Next Accreditation System.”
2. Describe the process and complexities of program reviews and how ACGME staff prepare the final results for individual programs.
3. List the new program requirements that have recently gone into effect in response to changes in the radiology educational environment.

RAHSR Session 217
Comparative Effectiveness and Patient-centered Outcomes Research

Location: Platinum Ballroom Salons H and I
Moderators: Jeffrey G. Jarvik, MD, MPH
Christoph I. Lee, MD, MSHS*

[2:00–2:15 PM] Overview of Comparative Effectiveness Research
Faculty: Rebecca Smith-Bindman, MD, MPH

[2:15–2:30 PM] Comparative Effectiveness Research and Diagnostic Testing
Faculty: Pari Pandharipande, MD, MPH

[2:30–2:45 PM] Comparative Effectiveness Research in Screening
Faculty: Mitchell D. Schnall, MD, PhD*

[2:45–3:00 PM] Overview of Patient-centered Outcomes Research
Faculty: Jeffrey G. Jarvik, MD, MPH*

[3:00–3:15 PM] Overview of Patient-reported Outcomes Measures including Measuring and Assessing Patient-reported Outcomes in CER Studies
Faculty: Brian W. Bresnahan, PhD*

[3:15–3:30 PM] Panel Discussion
Faculty: Rebecca Smith-Bindman, MD, MPH
Pari Pandharipande, MD, MPH
Mitchell D. Schnall, MD, PhD*
Jeffrey G. Jarvik, MD, MPH*
Brian W. Bresnahan, PhD*

Learning Objectives:
1. Describe the key methodologies and measures used in comparative effectiveness and patient-centered outcomes research involving screening and diagnostic imaging.
2. Assess the challenges of comparative effectiveness and patient-centered outcomes research related to both screening and diagnostic imaging.
3. Identify new opportunities for comparative effectiveness and patient-centered outcomes research directly related to radiology.

SCARD Session 218
Peer Review in Radiology

Location: Platinum Ballroom Salons F and G
Faculty: David A. Koff, MD*
Edward Weinberger, MD*
Elias R. Melhem, MD, PhD

Learning Objectives:
1. List the different methods of radiologist peer review.
2. Develop personal learning projects and lifelong learning strategies based on peer assessment results.
3. Specify the requirements for a peer review software.
4. Describe benefits of proactive compared to reactive peer review.

* Faculty financial disclosures are located in the Faculty Index.
2:30–3:30 PM  A"CR" Business Meeting and Elections
Location: Platinum Ballroom Salon C
Moderator: Irene Tseng, MD
Faculty: Victor Sai, MD
Steven Sauk, MD
Elizabeth Sheybani, MD
Colin M. Thompson, MD

3:30–4:00 PM  Break and Poster Viewing
Location: Platinum Ballroom Salon E

4:00–5:30 PM  A"CR"/APDR/SCARD/ACER/AMSER Session 219
Brogdon Panel: Innovations in Radiology Resident Education
Location: Platinum Ballroom Salon D
Moderator: Prasad R. Shankar, MD
Faculty: Theresa C. McLoud, MD
Richard B. Gunderman, MD, PhD
Colin Strickland, MD

Learning Objectives:
1. Identify recent innovations in resident education.
2. Describe teaching methods that address current residency issues.
3. Explain the use of new technology in education.

4:45–5:30 PM  RAHSR Business Meeting
Location: Olympic 1

6:30–8:30 PM  AUR Welcome Reception
Location: Pool Deck

* Faculty financial disclosures are located in the Faculty Index.
Thursday, April 11, 2013

6:30–8:00 AM  Continental Breakfast (all attendees)
Location:  Platinum Ballroom Salon E

6:30 AM–4:30 PM  Meeting Registration
Location:  Platinum Ballroom Foyer

6:30 AM–5:00 PM  Exhibit Viewing
Location:  Platinum Ballroom Foyer

6:30 AM–5:00 PM  Poster Viewing
Location:  Platinum Ballroom Salon E

6:30 AM–6:00 PM  Speaker Ready Room
Location:  Georgia 1

7:00–8:15 AM  **AMA PRA Category 1 Credit™ Poster Session 2** 301
Location:  Platinum Ballroom Salon E

7:00–8:15 AM  **A*CR* Session (members only)** 302  
Idea Forum
Location:  Platinum Ballroom Salon C
Moderators:  Gautham P. Reddy, MD
Angelisa M. Paladin, MD

Learning Objectives:
1. Describe the challenges that chief residents face.
2. Identify experiences that are shared by chief residents at many programs.
3. Formulate potential solutions to those issues.

7:00–8:15 AM  **ACER/APDR Session** 303  
So You Decided to Join the Digital Age: Now What?
Location:  Platinum Ballroom Salon D

[7:00–7:30 AM]  **e-Publish or Perish**
Faculty:  Michael L. Richardson, MD

Learning Objectives:
1. Comprehend the pros and cons of self-publication versus conventional publication.
2. Be aware of the advantages of e-books over other formats for disseminating teaching materials.
3. Learn the pros and cons of the leading e-book formats.
4. Find free software for creating their own electronic books (e-books).

[7:30–8:00 AM]  **Web Site Creation for Dummies**
Faculty:  Mahesh M. Thapa, MD

Learning Objectives:
1. Explain the basic steps to build a Web site by using the program RapidWeaver.
2. Describe how to use WordPress to create a Web site.
3. List some benefits and drawbacks of using RapidWeaver and WordPress to create a Web site.

7:00–8:15 AM  **AMSER Members Meeting**
Location:  Platinum Ballroom Salons H and I
Moderator:  William Herring, MD

* Faculty financial disclosures are located in the Faculty Index.
7:00–8:15 AM  APCR Session 1  304

APCR and Milestones
Location: Platinum Ballroom Salons A and B
Moderator: Lynn M. Lammers, C-TAGME

[7:00–8:00 AM] The Education of Masterful Physicians: The Next Accreditation System, Milestones, and You
Faculty: Timothy Brigham, PhD

[8:00–8:15 AM] Q&A

Learning Objectives
1. Provide basic understanding of the milestones process.
2. Provide overview and updates of the “Next Accreditation System.”
3. Understand how we as coordinators can support the program with each of these processes.

7:00–8:15 AM  GERRAF/RAHSR Session 1  305

Research in Progress
Location: Platinum Ballroom Salons F and G
Moderator: Ruth C. Carlos, MD, MS

2013 Junior Fellow Presentation

8:00 AM–6:00 PM  AUR-Agfa Radiology Management Program (Advance Registration Required)
Location: Diamond Ballroom Salons 7 and 8

In order to be in compliance with the Accreditation Council for Continuing Medical Education’s Standards of Commercial Support, AMA PRA Category 1 Credit™ will not be awarded to physicians attending this session.

8:15–8:30 AM  Break

8:30–10:00 AM  ACR/APDR/SCARD/APCR Session  306

Problem-solving Roundtables
Location: Platinum Ballroom Salon D
Moderators: Jennifer Shih, MD
           Jesse D. Woodard, MD
Faculty: Darel E. Heitkamp, MD
        Charles S. Resnik, MD

Learning Objectives:
1. Present the results of the chief residents’ problem-solving sessions.
2. Have small-group discussions aimed at solving stated problems.
3. Present small-group solutions to all participants.

8:30–10:00 AM  AMSER/ACER Session  307

Lecturing for Learning: Innovative Strategies for Improving Your Lectures
Location: Platinum Ballroom Salons A and B
Moderators: Matthew T. Heller, MD
           Katherine A. Klein, MD

[8:30–8:50 AM] The Psychology of Effective Lecturing
Faculty: Richard B. Gunderman, MD, PhD

Learning Objectives:
1. Describe the role of understanding the audience in effective lecturing.
2. Outline approaches for increasing the effectiveness of lectures.
3. Develop strategies for better tailoring lectures to the needs of learners.
[8:50–9:10 AM] How Medical Student and Radiology Student Lectures Differ (or How They Should Differ!)  
Faculty: Emily M. Webb, MD  
Learning Objectives:  
1. List teaching goals that differ between medical student education and resident education in radiology.  
2. Compare and contrast radiology lecture content as more appropriate for medical students versus residents.  
3. Describe interactive teaching formats that may be more beneficial than traditional lecturing in some instances.

[9:10–9:30 AM] Innovative Strategies to Make Your Lectures Interesting and the Use of Feedback and Audience Interaction to Improve Your Lectures  
Faculty: Maria C. Shiau, MD  
Learning Objectives:  
1. Use intermittent questions to engage audience.  
2. Create an interactive audience response system (ARS) slide from scratch as well as from a preexisting PowerPoint presentation.  
3. Use an unknown case to open a lecture, and revisit at the end to test comprehension of material covered.  
4. Organize a lecture based on clinical questions/applications.  
5. Use games such as jeopardy.

[9:30–9:45 AM] Lectures: Avoiding Common Mistakes  
Faculty: Vikas Agarwal, MD  
Learning Objectives:  
1. List the most common mistakes in lectures for trainees.  
2. Improve lecture organization by selecting appropriate lecture objectives.  
3. Identify simple techniques to increase lecture effectiveness.

[9:45–10:00 AM] Q&A  
8:30–10:00 AM GERRAF/RAHSR Session 2  
Research in Progress  
Location: Platinum Ballroom Salons F and G  
Moderator: Ruth C. Carlos, MD, MS  
2013 Junior Fellow Presentation  
8:30–10:00 AM AUR Session  
ACR Update: Relevance to the Academic Community  
Location: Platinum Ballroom Salon C  
Faculty: Paul H. Ellenbogen, MD  
Cheri L. Canon, MD  
Bibb Allen, Jr, MD  
Learning Objectives:  
1. Describe innovative initiatives from the Commission on Education.  
2. Describe the goals and purpose of the ACR Neiman Health Policy Institute and the Imaging 3.0 Initiative, and identify potential collaboration.  
3. Identify significant trends from the Radiology Manpower Survey and the potential impact on academic radiology.  
4. Identify economic trends in medicine and radiology, including potential threats and opportunities.  
5. Describe the goals and rationale for the changes to the AMCLC 2013 and the transformation of ACR 2015.

10:00–10:30 AM Break and Poster Viewing  
Location: Platinum Ballroom Salon E

* Faculty financial disclosures are located in the Faculty Index.
THURSDAY SCHEDULE

10:30 AM–12:00 PM  APCR Business Meeting 2
Location: Platinum Ballroom Salons A and B

10:30 AM–12:00 PM  AUR Plenary Keynote Session 310
2013 and Beyond: Is Academic Radiology an Endangered Species?
Location: Platinum Ballroom Salon D
Moderator: Jocelyn D. Chertoff, MD, MS
Faculty: Darrell G. Kirch, MD (AAMC)
Learning Objectives:
1. Identify the opportunities and challenges associated with the current health care system.
2. Describe the set of competencies required from future physicians to lead transformational change.
3. Examine the need for alignment between core ethical principles and future health system change.

12:00–1:00 PM  Luncheon and AUR Business Meeting
Location: Diamond Ballroom Salons 4 and 5

1:00–1:45 PM  Philips Vydareny Imaging Interpretation Competition 2 311
Presented by Mallinckrodt Institute of Radiology
Location: Diamond Ballroom Salons 4 and 5
Moderator: Kristopher W. Cummings, MD
Faculty: Steven Sauk, MD
Elizabeth Sheybani, MD
Colin M. Thompson, MD

1:45–2:00 PM  Break

2:00–3:30 PM  AUR Scientific Sessions
See page numbers listed for abstracts to be presented in each session.

SS01: Learning Continuum  SS01
(See pages 57–60.)
Location: Platinum Ballroom Salon D

SS02: Evaluation  SS02
(See pages 60–62.)
Location: Platinum Ballroom Salon C

SS03: Cardiopulmonary; Emergency/On Call  SS03
(See pages 63–65.)
Location: Platinum Ballroom Salons A and B

SS04: Women’s Imaging; Abdomen  SS04
(See pages 65–68.)
Location: Platinum Ballroom Salons F and G

SS05: Neuroradiology; Interventional Radiology; Musculoskeletal  SS05
(See pages 68–71.)
Location: Platinum Ballroom Salons H and I

SS06: RAHSR Session  SS06
(See pages 71–74.)
Location: Diamond Ballroom Salon 6

3:30–4:00 PM  Break and Poster Viewing
Location: Platinum Ballroom Salon E

* Faculty financial disclosures are located in the Faculty Index.
THURSDAY SCHEDULE

4:00–5:30 PM

**AMSER/ACER Session**

Digital Educational Tools (Electronic Exhibits)
Location: Diamond Ballroom Salons 9 and 10
Moderator: Sravanthi Reddy, MD

[4:00–4:10 PM] Welcome and Overview
[4:10–5:30 PM] Demonstrations
Learning Objective:
1. Review and apply electronic exhibits selected from submitted abstracts.

4:00–5:30 PM

**APCR Session 2**

ERAS and NRMP Collaborations
Location: Platinum Ballroom Salons A and B
Moderator: Lynn M. Lammers, C-TAGME

[4:00–4:40 PM] Supplemental Offer and Acceptance Program (SOAP) and Electronic Residency Application Service (ERAS) Innovations
Faculty: Dukhbhanjan Sujlana
Learning Objectives:
1. Discuss and assess the Supplemental Offer and Acceptance Program (SOAP) in the Electronic Residency Application Service (ERAS).
2. Identify ERAS 2014 enhancements.
3. Provide ERAS reengineering update.
4. Determine ERAS help resources.
5. Review Web-based demonstration.

[4:40–5:20 PM] All-in Policy: A Collaboration between the National Resident Matching Program (NRMP) and Programs
Faculty: Laurie S. Curtin, PhD
Learning Objectives:
1. Review all-in policy.
2. Discuss match agreements.
3. Explain violations policy.

[5:20–5:30 PM] Q&A

4:00–5:30 PM

**RAHSR Colloquium**

Electronic Health Record Innovations and Opportunities
Location: Platinum Ballroom Salons F and G
Moderators: Garry Choy, MD
Tessa S. Cook, MD, PhD

[4:00–4:25 PM] Critical Results Notification Systems: Challenges from Initial Implementation to Sustaining Momentum
Faculty: Jim Y. Chen, MD

[4:25–4:50 PM] Data Mining of Radiology Reports for Clinical Research, Education, Quality Improvement, and Operational Analyses
Faculty: Woojin Kim, MD*

[4:50–5:15 PM] Optimizing the Access and Display of Electronic Medical Records from Multiple Sources
Faculty: John Eng, MD

[5:15–5:30 PM] Panel Discussion
Faculty: Jim Y. Chen, MD
Woojin Kim, MD*
John Eng, MD

Learning Objectives:
1. Review current informatics innovations in data mining and communication systems.
2. Discuss the impact of informatics on radiology practice, research, education, and quality improvement.
3. Describe practice benefits of radiology informatics tools.

* Faculty financial disclosures are located in the Faculty Index.
4:00–5:30 PM  SCARD/APDR Session  315

State of the Union
Location: Platinum Ballroom Salon D
Moderator: Duane G. Mezwa, MD

[4:00–4:20 PM] Chair/Program Director Alignment: Resourcing, Metrics, and Goals
Faculty: Carolyn C. Meltzer, MD*
         Mark E. Mullins, MD, PhD

Learning Objectives:
1. Identify aspects of resource allocation that would be advantageous for a diagnostic radiology residency from the perspective of a program director.
2. Identify opportunities for alignment between chairs and program directors regarding educational programmatic excellence.
3. Develop an action plan for following up on this session in their own milieu.

[4:20–4:30 PM] Open Microphone
[4:30–4:50 PM] The Match
Faculty: Anna Rozenshtein, MD

Learning Objectives:
1. Understand the cyclical trends in radiology resident recruitment through the National Resident Matching Program (NRMP) with changes in the economic and political environment.
2. Analyze the NRMP data to make better informed decisions in the next match.
3. Identify the benefits and challenges of the Electronic Residency Application Service (ERAS) and the effect they have on your program’s success in resident recruitment.

[4:50–5:00 PM] Open Microphone
[5:00–5:20 PM] APDR Survey
Faculty: Mark R. Robbin, MD

Learning Objectives:
1. Define the role and reporting structure of the APDR Survey Committee.
2. Examine the trends in what program directors are thinking by using the yearly survey results on selected topics.
3. Identify important issues to be addressed by the APDR Board and topics for inclusion for the annual meeting program.

[5:20–5:30 PM] Open Microphone
5:00–5:30 PM  RRA Business Meeting
Location: Olympic 2

5:30–5:45 PM  ACER Business Meeting and Award Presentation
Location: Olympic 3

5:45–7:00 PM  AMSER/ACER Reception
Location: Olympic 3
Mix and socialize with other radiology educators, learn about the benefits of AMSER and ACER membership, and sign up for committee membership and other active participation in ongoing AMSER and ACER projects.

6:00–7:00 PM  AUR-Agfa Radiology Management Program Reception (Advance Registration Required)
Location: Plaza 3

* Faculty financial disclosures are located in the Faculty Index.
## Friday, April 12, 2013

### Continental Breakfast (all attendees)
- **Location:** Platinum Ballroom Salon E
- **Time:** 6:30–8:00 AM

### Exhibit Viewing
- **Location:** Platinum Ballroom Foyer
- **Time:** 6:30 AM–12:00 PM

### Poster Viewing
- **Location:** Platinum Ballroom Salon E
- **Time:** 6:30 AM–12:00 PM

### Speaker Ready Room
- **Location:** Georgia 1
- **Time:** 6:30 AM–12:00 PM

### Meeting Registration
- **Location:** Platinum Ballroom Foyer
- **Time:** 6:30 AM–12:00 PM

### GERRAF/RAHSR Session 3 401
**Research in Progress**
- **Location:** Platinum Ballroom Salons F and G
- **Moderator:** Ruth C. Carlos, MD, MS
- **Time:** 7:00–8:30 AM
- **Description:** 2013 Junior Fellow Presentation

### AUR Academic Faculty Development Program (Advance Registration Required)
- **Location:** Diamond Ballroom Salons 7 and 8
- **Time:** 7:15 AM–5:00 PM
- **Description:** In order to be in compliance with the Accreditation Council for Continuing Medical Education’s Standards of Commercial Support, AMA PRA Category 1 Credit™ will not be awarded to physicians attending this session.

### A‘CR2 Session 402
**Case Review 5: Neuroradiology, Nuclear Medicine, and Musculoskeletal Imaging**
- **Location:** Platinum Ballroom Salon C
- **Moderator:** Fernando J. Boschini, MD
- **Faculty:** Mark E. Mullins, MD, PhD
  - David M. Naeger, MD
  - Deborah M. Forrester, MD
- **Time:** 8:30–10:00 AM
- **Learning Objectives:**
  1. Review interesting cases, initially as unknowns and then with brief focused “pearls.”
  2. Identify abnormalities on imaging studies.
  3. Develop appropriate differential diagnoses.
  4. Describe appropriate management.

### AUR Session 403
**Reflective Exercises as a Tool to Teach Professionalism during Radiology Residency**
- **Location:** Platinum Ballroom Salons A and B
- **Faculty:** Priscilla J. Slanetz, MD, MPH
  - Justin W. Kung, MD
- **Time:** 8:30–10:00 AM
- **Learning Objectives:**
  1. Identify the different ways that professionalism can be taught during residency.
  2. Define reflective practice, and describe how this approach can be incorporated into residency programs.
  3. Apply reflective techniques to teach professionalism in residency training by knowing specific pitfalls of this approach.

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* Faculty financial disclosures are located in the Faculty Index.
8:30–10:00 AM  RAHSR/RRA Session

Fostering Research in the New Radiology Curriculum

Location: Platinum Ballroom Salons H and I

Moderators: Rathan M. Subramaniam, MD, MPH, PhD
Christoph I. Lee, MD, MSHS

[8:30–8:50 AM]  Research Pathways in Residency Training

Faculty: Michael S. Gee, MD, PhD

[8:50–9:10 AM]  Research Pathways in Fellowship Training

Faculty: Pina C. Sanelli, MD, MPH


Faculty: Sidhartha Tavri, MBBS

[9:30–9:50 AM]  Evolving Opportunities for Supporting Research

Faculty: Carolyn C. Meltzer, MD

[9:50–10:00 AM]  Panel Discussion

Faculty: Michael S. Gee, MD, PhD
Pina C. Sanelli, MD, MPH
Sidhartha Tavri, MBBS
Carolyn C. Meltzer, MD

Learning Objectives:
1. Identify and recommend resources available to residents and fellows for the pursuit of research endeavors in the new radiology curriculum.
2. Address the key concerns among trainees with regard to engaging in research activities during their residency and fellowship training in light of the new curriculum.
3. Describe the existing and evolving research funding sources for faculty members, and recommend steps for increasing funded research activities among radiology faculty.

8:30–10:00 AM  SNMMI/APDR/APCR/SCARD Session

What Are, and Should Be, the Roles and Interrelationships of Our Professional Organizations, and How Do They Impact Education in Nuclear Medicine?

Location: Platinum Ballroom Salon D

Moderator: Jay A. Harolds, MD

[8:30–8:33 AM]  Introduction

Faculty: Jay A. Harolds, MD

[8:33–8:45 AM]  Society of Nuclear Medicine and Molecular Imaging (SNMMI)

Faculty: Gary L. Dillehay, MD

[8:45–8:57 AM]  American College of Radiology

Faculty: Paul H. Ellenbogen, MD

[8:57–9:09 AM]  American Society of Nuclear Cardiology and the Council for Certification in Cardiovascular Imaging

Faculty: Howard Lewin, MD


Faculty: Eric M. Rohren, MD, PhD


Faculty: Milton J. Guiberteau, MD

[9:33–9:45 AM]  Accreditation Council for Graduate Medical Education

Faculty: Anton N. Hasso, MD

* Faculty financial disclosures are located in the Faculty Index.
Q&A/Panel Discussion

Learning Objectives:
1. Discuss the roles and interrelationships each of the following has on nuclear medicine training:
   a. Professional societies, such as with their guidelines and standards, and organizations of program directors.
   b. Modality and practice accreditation, by various organizations.
   c. The American Board of Radiology, the American Board of Nuclear Medicine, and the Council for Certification in Cardiovascular Imaging.
   d. The Accreditation Council for Graduate Medical Education.
   e. The Nuclear Regulatory Commission.
2. Discuss how organizations in nuclear medicine can better align to consolidate resources, reduce competition, and present a unified approach to nuclear medicine training and scope of practices.
3. Discuss whether radiologists in radiology residency programs should be required to teach nonradiology residents.
4. Discuss the advantages and disadvantages of nuclear medicine being fragmented into organ-specific subspecialty areas, and how various organizations could affect this.
5. Discuss how to move molecular imaging, including those methods not requiring isotopes, from the research area into residency education.

Break

Location: Platinum Ballroom Salon E

ACR Update

Location: Platinum Ballroom Salon C
Moderator: Kevin S. Koo, MD
Faculty: Paul H. Ellenbogen, MD

Learning Objectives:
1. Describe programs of the American College of Radiology (ACR).
2. Discuss the benefits of ACR membership.
3. Learn about leadership opportunities in radiology.

Innovative PC Applications for PowerPoint Presentations: Advanced Applications

Location: Olympic 3
Moderator: Carl R. Fuhrman, MD
Facilitator: Petra J. Lewis, MD* Faculty: Stefan Tigges, MD*

Registrants will need to bring their PC laptops for this “hand-on” interactive session. This workshop requires an understanding of basic PowerPoint (and it is not for those with little or no experience using PowerPoint). Required templates will be e-mailed to registrants prior to the meeting so that they will be available on your PC laptops for the workshop.

Learning Objectives:
1. Draw, trace, edit, and group simple shapes by using the drawing and other tools in Microsoft PowerPoint.
2. Apply effects to shapes.
3. Animate shapes by using the animation tools in Microsoft PowerPoint.
4. Combine PowerPoint shapes and animations to make simple but powerful teaching tools.

Innovative Tools for Education

Location: Platinum Ballroom Salon D
Moderator: Janet E. Bailey, MD

Learning Objectives:
1. Explain how animation can be used to teach.
2. Apply skills in converting a text into animation.
3. Apply skills in creating an animated video.

* Faculty financial disclosures are located in the Faculty Index.
Faculty: Harprit S. Bedi, MD

Learning Objectives:
1. Develop an understanding of how iPads can be incorporated into the workflow of a radiology resident.
2. Identify specific applications and techniques that can enhance the learning environment.
3. Appreciate how mobile technology can change the way we deliver education content and enhance the clinical value of a radiologist.

[11:20–11:40 AM] Social Media in Education
Faculty: Roland S. Talanow, MD, PhD

Learning Objectives:
1. List a spectrum of social media sites and applications that can be used for education.
2. Apply solutions: how these resources can help the way we educate today.
3. Identify how these resources may influence education in the (near) future.

[11:40 AM–12:00 PM] Q&A

10:30 AM–12:00 PM GERRAF/RAHSR Session 4
Research in Progress
Location: Platinum Ballroom Salons F and G
Moderator: Ruth C. Carlos, MD, MS
2013 Junior Fellow Presentation

10:30 AM–12:00 PM SCARD Session
Simulation in Radiology
Location: Platinum Ballroom Salons H and I
Faculty: Leonard R. Bok, MD, JD
Carolyn L. Wang, MD

Learning Objectives:
1. Examine the uses of high-fidelity simulation training for contrast reaction management.
2. Identify the limitations and possible solutions to high-fidelity simulation training for contrast reaction management.
3. Explore other areas of radiology that may benefit from high-fidelity simulation training.
4. Discuss generally the value of simulation in the radiology curriculum.
5. Discuss types of simulation, including high fidelity and low fidelity.

10:30 AM–12:30 PM AMSER Session
AMSCR Program
Location: Diamond Ballroom Salon 6
Moderator: Christopher M. Straus, MD

[10:30–11:15 AM] The Paperless Coordinator: How to Save Time and Effort
Faculty: Sravanthi Reddy, MD

Learning Objectives:
1. Apply current technology and paperless programming to the management of a radiology course.
2. Contrast different methods of course management in light of LCME requirements.
4. Specify AMSER recommendations on course management.

[11:15 AM–12:00 PM] Supporting Curriculum Development and Student Feedback
Faculty: Emily M. Webb, MD
David M. Naeger, MD
Melinda G. Parangan-Chu

Learning Objectives:
1. Apply strategies for coordinating a medical student curriculum in radiology.
2. Discuss different methods for facilitating student and course evaluations.
3. Propose several ways to support a radiology interest group.

[12:00–12:30 PM] Questions and Answers

* Faculty financial disclosures are located in the Faculty Index.
12:00–12:30 PM 밥상
**Innovations Program Lunch**
Location: Platinum Ballroom Salons A and B

12:00–1:15 PM  정시
**Lunch on Your Own**

12:00–1:45 PM  회의
**SCARD Business Meeting and Luncheon**
Location: Diamond Ballroom Salon 10

12:30–3:00 PM  강의
**Innovations in Academic Radiology Program**
(Sponsored by an unrestricted educational grant from Carestream Health)

The Need for Collaboration and Proving Value in a Patient and Family Environment
Location: Platinum Ballroom Salons A and B
Program Chair: Pablo R. Ros, MD, MPH*
Course Director: James V. Rawson, MD

Introduction and Overview
[12:30–12:40 PM] Innovations in Academic Radiology: Value Proposition
Faculty: Pablo R. Ros, MD, MPH*

Education
[12:40–12:50 PM] Collaboration in Radiology Education: Citywide Education Efforts
Faculty: Rajeev Suri, MD
[12:50–1:00 PM] Proving the Value of the Radiologist as an Educator
Faculty: Robert A. Novelline, MD
[1:00–1:10 PM] Training Radiology Residents to Talk to Patients and Families
Faculty: Stephen D. Brown, MD
[1:10–1:20 PM] Q&A

Research
[1:20–1:30 PM] Innovation in Academic Radiology Research: Value Proposition
Faculty: Jonathan S. Lewin, MD*
Faculty: Sanjiv S. Gambhir, MD, PhD*
[1:40–1:50 PM] Who Are Radiologist's Future Research Collaborators?
Faculty: Richard L. Ehman, MD*
[1:50–2:00 PM] Social Media and Research in Radiology
Faculty: Heather R. Curry, MPS
[2:00–2:10 PM] Q&A

Clinical
[2:10–2:20 PM] Clinical Radiology: The Value Proposition
Faculty: Bibb Allen, Jr, MD
[2:20–2:30 PM] Collaborations across Departments: Centers of Excellence
Faculty: Erik K. Paulson, MD
[2:30–2:40 PM] Collaborations across Departments: Centers for Excellence
Faculty: Richard D. White, MD
[2:40–2:50 PM] Patients as Partners
Faculty: James V. Rawson, MD
[2:50–3:00 PM] Q&A

Learning Objectives:
1. Describe the value radiology brings to medical education, research, and clinical practice.
2. Evaluate the benefits of collaboration between academic departments inside and outside of radiology in education, research, and clinical practice.
3. Evaluate the benefits of involving patients and families in the triple mission of academic radiology departments.

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APDR Teaching Certificate Program
Teaching the Teachers 2013

Location: Platinum Ballroom Salons F and G
Course Directors: Lori A. Deitte, MD
Beverly P. Wood, MD, PhD, MSEd
Moderators: Theresa C. McLeod, MD
Reyad A. Hayek, MD
James E. Silberzweig, MD
Kathleen T. Hudson, MD
Michael B. Sneider, MD
Lisa H. Lowe, MD

[1:30–2:05 PM] Learner Needs: What Do Your Learners Need to Fulfill the Core Curriculum? What Gaps Are to Be Filled, and How Can They Be Identified and Addressed?
Faculty: Beverly P. Wood, MD, PhD, MSEd

Learning Objectives:
1. Identify personal needs and gaps they did not learn earlier.
2. Identify the learner’s learning and performance needs.
3. Define and measure a need and a gap.

[2:05–2:20 PM] Activity

Faculty: Charles M. Maxfield, MD

Learning Objectives:
1. Understand the expectations for the physics portion of the core exam.
2. Identify learning tools and processes to help prepare their residents for this exam.
3. Develop their own learning tools to prepare residents for the physics portion of the core exam.
4. Identify available tools to assess their residents’ readiness to pass the physics portion of the core exam.

[2:55–3:10 PM] Activity

Faculty: Lori A. Deitte, MD

Learning Objectives:
1. Describe interactive learning activities for the radiology core curriculum.
2. Discuss methods of assessment of learning for the radiology core curriculum.
3. Integrate these activities and methods of assessment to prepare your residents for the new core exam.

[3:45–4:00 PM] Activity

6:30–7:30 PM Annual Banquet Cocktail Reception
Location: Platinum Ballroom Foyer

7:30–10:00 PM Annual Banquet and Awards Ceremony
Location: Platinum Ballroom Salon D

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